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SAFEORD: SAFETY OF EXPLOSIVE ORDNANCE DATABANK(U) NAVAL 1/1
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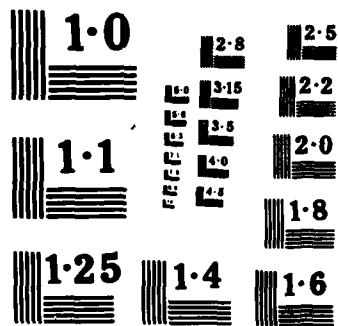
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**SAFEORD: SAFETY OF EXPLOSIVE
ORDNANCE DATABANK**

**BY
FRANK J. HANZEL
ENGINEERING DEPARTMENT**



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FOREWORD

The Safety of Explosive Ordnance Databank (SAFEORD) was conceived, designed, and developed by the Naval Surface Weapons Center (NSWC), System Safety Division (E50), Risk Assessment Branch (E52) under a task from the Naval Sea Systems Command (NAVSEA) Safety Division (SEA-06H). This document describes the restructuring of the SAFEORD system. NSWC/DL Technical Report TR-3192* gives a comprehensive description of the operation, contents, uses, and advantages of the system.

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* Frank J. Hanzel, SAFEORD: *Safety of Explosive Ordnance Databank*, NSWC/DL TR-3192 (Dahlgren, Va., September 1974).

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INTRODUCTION

The need for a centrally located databank to store and rapidly retrieve safety information pertaining to naval explosive ordnance, explosive materials, and weapon systems and components in the Fleet and under development is emphasized daily by urgent requests for this type of data. Instant availability of the necessary data can save lives, time, and money and prevent loss of fleet capability. The ability to obtain these data rapidly, accurately, and economically enhances tremendously the operational effectiveness of the fleet Navy Systems Commands.

Working under a NAVSEA Safety Division (SEA-06H) SEATASK, the System Safety Division (E50) developed a functional databank in 1969 capable of storing and providing rapid retrieval of naval explosive ordnance safety data. However, vastly increased demands for faster retrieval, greater simplicity of use, and faster rate of endowment resulted in a critical need for restructuring SAFEORD.

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DATABANK STORAGE AND RETRIEVAL EQUIPMENT

A review of available computer and microfiche equipment was conducted to determine their ability to meet the design requirements for restructuring SAFEORD. The NSWC CDC 6700 and CYBER 170/720 computers were selected for use with the databank because of their availability, economical operation, and capability to interface efficiently with ordnance safety data and microfiche equipment. After evaluating the capabilities of available commercial microfiche equipment, the 3M model 500 microfiche reader-printer was selected for use with the databank. Additional equipment used with the databank includes a Xerox model 400 telecopier, a dry process microfiche camera/processor, a dry process duplifice printer-developer, and a Silent 700 electronic data terminal.

RESTRUCTURING

EQUIPMENT

The original equipment provided SAFEORD users with a viable system for entering, storing, and retrieving weapon systems safety information. To meet demands for more rapid entry and retrieval of these data, a restructuring program was initiated. A dry process camera, fiche duplicator, and microfiche reader-printer units replaced the cumbersome wet process equipment. The new equipment: (1) significantly enhances entry and retrieval of data by reducing document photo-copying and fiche reproduction time, (2) reduces turnaround time required to reproduce documents from microfiche to hard-copy format, (3) is more cost-effective, and (4) eliminates hazards associated with the storing, handling (mixing), and disposing of chemicals required by the wet process photography operation. The addition of a CYBER 170/720 computer and a Silent 700 electronic data terminal significantly enhances SAFEORD data entry and retrieval capabilities by enabling its users to communicate directly with the computer.

SOFTWARE

The original SAFEORD computer software programs were designed to identify the number and location of each microfiche card containing specific safety information related to a unique weapon system, component, subcomponent, explosive, propellant, safety test, etc. The numbers of microfiche cards containing these data are published in the SAFEORD Weapon System Dictionary and/or Ship and Shore Dictionary. Users had to proofread (hand-massage) each microfiche card to identify the specific document(s) containing the desired information. This *modus operandi*, though effective, had to be improved to enhance rapid retrieval. Thus the software was restructured to provide the users with the following capabilities:

1. Documents can be located via the Log File Dictionaries. For example, Log File Dictionary No. 5 contains a chronological listing of all documents by date (Figure 1), while Log File Dictionary No. 6 contains an alphanumeric listing of all documents by file (author of source) (Figure 2). Headline entries in these dictionaries include the
 - a. Seven alphanumeric microfiche number in the left margin, which identifies the microfiche containing the document;
 - b. Document data
 - c. File (author-source)
 - d. Subject of the document under NARRATIVE.

SAFEORD LOG FILE

FICHE	DOCUMENT	FILE	DATE	NARRATIVE
ZU7534K	15AUG58	AEROJET		AEROJET SOLID PROPELLANT FORMULATION IDENTITY, ANP-2542 EP
SUB155J	19AUG58	BUORD/HMR		USE OF HEARING AIDS IN AREAS OF EXPLOS PRODUCTION & HANDLING, COMMENT
BU1614J	21AUG58	BUORD/RE2C/GFS		NON-METALLIC FUZE SEAT LINER STUDY OF
ZU7282F	25AUG58	AEROJET		HAZARD CLASSIFICATION FOR 14-AS-1000 JATO
BU2191J	00SEP58	NATIONAL ADVISORY FOR AERONAUTICS		RATE OF REACTION OF GASEOUS FLOURINE WITH WATER VAPOR AT 35C
DU6123F	00SEP58	ASE58		SAFETY MANUAL FOR SITTING CONSTRUCTING AND EQUIPPING PIER AND WHARF
				FACILITIES FOR HANDLING EXPLOSIVES AND AMMUNITION
				RF ELECTROMAGNETIC RADIATION SURVEY AT ATOMIC UNDERWATER WARFARE
SC6861E	00SEP58	IEET 8024		BLDG NAS BRUNSWICK MAINE
BU6805K	15SEP58	BUSHIPS		SURFACE-TO-AIR MISSILE SFTY TEST COMPARTMENT SPRINKLER SYS FOR
SC6921K	24SEP58	NAVMINDEP YORKTOWN/326/RHF		AUTHORITY TO REMOVE DELUGE AND SPRINKLER SYSTEMS FROM H E CAST
				LOADING PLANTS REQUEST FOR
ZC7055H	26SEP58	NAVORD/O48		DISCUSSION AND AGREEMENTS AT TARTAR NEWS MEETING RKT SPLINTER
				CONFERENCE AT BUORD SEPT 24 1958
				ARCON MOTOR VIBRATION TESTS
AU4542A	00OCT58	NWL T-31/58		AIRCRAFT PROTECTION FROM ATMOSPHERIC ELECTRICAL HAZARDS
DU4773K	00OCT58	DEFSUPAGENCY		DEVELOPMENT OF PROPELLANT CHARGES FOR THE XC-9 HIGH LOW CATAPULT
				HAZARD OF ELECTROMAGNETIC RADIATION TO ORDNANCE
ZC7014A	00OCT58	ABL/B-18		REPORT ON IGNITER PALLETS
SC6953E	02OCT58	BUORD/CNC		FINAL RPT GROUND AND HIGH SPEED FLIGHT TST OF BOMB, CHEMICAL, 500LB
ZC7012A	17OCT58	AEROJET		LOW DRAG M094/000
BC3611K	20OCT58	NAOTS CHINCOTEAGUE		TARTAR AGC RKT MTR EXPL HAZ CLASSIFICATION REQUEST CLARIFICATION OF
				TERRIER READY SERVICE MAGAZINES SPRINKLING SYS DETECTION DEVICES
ZC7055G	28OCT58	NAVORD/O48		COMMENTS ON
BU6803L	05NOV58	BUSHIPS		AEROJET SOLID PROPELLANT FORMULATION IDENTITY, ANP-2696 MH
				INVESTIGATION OF HERD HAZ TO POGO-HI MISSILE ON USS HAZELWOOD D0531
ZU7541J	06NOV58	AEROJET		AEROJET SOLID PROPELLANT FORMULATION IDENTITY, ANP-2699 MH
WC0062L	14NOV58	NPG 1631		PILOT PRODUCTION EVAL OF CONTINUOUS ROD WARHEAD FOR SPARROW III GM
ZU7541K	17NOV58	AEROJET		SFTY FIRING OF COMPOSITION B-LOADED 175MM T203E3 HIGH EXPL SHELL
BC7985G	28NOV58	NPG 1632		HAZARD CLASSIFICATION TST OF 3/50 INCH CARTRIDGES M049/000
BC7313L	00DEC58	PICATINNY 2590		SENSITIVITY OF EXPL TO SETBACK PRESSURE
BC7765F	00DEC58	NPG T-36/58		HAZ CLASS TST 5/38 PROJECTILE M049/000
BC7924H	00DEC58	NPG T-37/58		HAZ CLASS TST 3/50 CARTRIDGES M033/001
DU1441J	00DEC58	PICATINNY 2572		BDMPA
				METRIOL TRINITRATE ICC HAZ ARD CLASSIFICATION
ZC1864K	00DEC58	AD-202575		MM10 TERRIER READY SERVICE HANDLING SYS DELETION OF AUTOMATIC C02
ZC1865F	00DEC58	NPG T36/58		SYS
ZU7024A	01DEC58	BUEXP		MILITARY SPECIFICATION BDX COMPOSITION CH-6
ZU7345E	01DEC58	BUORD/MAE-C-AF		MINES M027/002-003, HBA-3 LOADING OF EXPLOSIVE SECTIONS
BU6804A	02DEC58	BUSHIPS		AEROJET SOLID PROPELLANT FORMULATION IDENTITY, ANP-2729 MH
				CC(N)9 REQUEST FOR CHANGE TO SPECIFICATION
DU7454I	04DEC58	MIL-R-21723(NORD)		CVA(N)65 REQUEST FOR CHANGE TO SPECIFICATION
ZU3573G	04DEC58	NUGS/DE285/FWC		DLG9 CLASS REQUEST FOR CHANGE TO SPECIFICATION
ZU7542B	09DEC58	AEROJET		TALOS BOOSTER VENTING STDY RECOMMENDATIONS
BU6804B	11DEC58	BUSHIPS		HEAT RESISTANT EXPLOSIVE III 1,3-DIAMINO-2,4,6-TRINITROBENZENE, DATB,
BU6804C	11DEC58	BUSHIPS		FROM 1,3-DIMETHOXYBENZENE
BU6804D	11DEC58	BUSHIPS		OPERATIONAL NECESSITY WAIVER FOR OPERATION OF ANMO WHARF HOTEL
BC4853C	15DEC58	NPG		REQUEST FOR
ZC2341D	15DEC58	NOL 6208		
SU8632G	18DEC58	COMNAVFOR MARIANAS/92		

FIGURE 1. SAMPLE FROM LOG FILE DICTIONARY NO. 5: DOCUMENTS BY DATE

SAFEORD LOG FILE

FIGURE	DOCUMENT DATE	FILE	NARRATIVE
TU6412B	03FEB76	HDQTRUSMC WASHINGTON/LMG/RM	RENEWAL OF WAIVERS REQUEST FOR
TU6661A	06AUG81	HDQTRUSMC WASHINGTON/LMG/RM/ADB	MUNITIONS STORAGE AREA REQUEST FOR EXEMPTION
TU5124C	31MAR80	HDQTRUSMC WASHINGTON/LMG/RM	WAIVER OF SECURITY HINGE BRACKETS FOR MAGAZINE ACCESS DOORS REQUEST
TU6474K	01APR81	HDQTRUSMC WASHINGTON/LMG/RM	WAIVER REQUEST AND PROPOSED STORAGE PLAN FOR THE CAMP MEMOKO MARINE
			AMMO STORAGE AREA
TU6885G	27OCT81	HDQTRUSMC WASHINGTON/LMG/RM	MUNITIONS STORAGE REQUEST FOR WAIVER
TU5891D	10OCT80	HDQTRUSMC WASHINGTON/LMG/RM	PHYSICAL SECURITY WAIVER REQUEST FOR
TU5761C	03NOV80	HDQTRUSMC WASHINGTON/LMG/50	DEMOLITION AREA REQUEST FOR
TU6473B	01JUN81	HDQTRUSMC WASHINGTON/LMG/50	ORDNANCE STRIPPING AND INERTING
SU9601D	26FEB78	HDQTRUSMC WASHINGTON/MP5-21-1C	PHYSICAL SECURITY EVAL OF MARINE CORPS ACTIVITIES
YU5005F	NONE	HDQTRUSMC WASHINGTON	TECHNICAL MANUAL WHICH PROVIDES DESCRIPTIONS AND OPERATING AND
			MAINTENANCE INSTRUCTIONS FOR THE M58 LINE CHARGE TRAILER-MOUNTED SYS
TU5532A	08SEP80	HDQTRUSMC WASHINGTON/LFF-1-TMR	ESTABLISHMENT OF ANTENNA SITES APPROVAL OF
TU2551I	00MAY85	HEALTH AND SAFETY LAB	CONTROL OF LIQUID HYDROGEN HAZARDS AT EXPERIMENTAL FACILITIES
ZU4375C	12SEP74	HEALTH PHYSICS ASSOC LTD	60 CO USED IN NARROW BEAM CONDITION, ENERGY AND BEAM CONFIGURATION
			CORRECTION FACTORS
SU8461A	09JAN75	HEDSUPPACT TAIPEI/35/CDC	DOESB VISIT
TU2533I	24JAN78	HEDSUPPACT TAIPEI/35/SUB	EXPLOSIVE SAFETY SURVEY OF HEADQUARTERS SUPPORT ACTIVITY TAIPEI
AU1714F	08NOV68	HERCULES INC	CHANGE PROPOSAL TALOS M011/Q05
AU1714I	27SEP68	HERCULES INC	TALOS BOOSTER M011/Q05 EXTINGUISHER
AU1723F	00SEP68	HERCULES INC	TALOS BOOSTER APPLIED ENGINEERING SUPPORT MONTHLY RPT
			CONTRACT N-00017-69-C-4315
AU1845A	01NOV71	HERCULES INC	TALOS BOOSTER ENGINEERING SUPPORT FINAL RPT
8C4795H	16OCT59	HERCULES INC	STATIC FIRING RECORDS AND DATA SHEETS (SIX X239 B2)
8C6754J	00APR68	HERCULES INC	SPARROW III AIM-7F PRE-FLIGHT RATING TST(PFRT) RPT VOL I
8C6783G	00SEP68	HERCULES INC	SPARROW III AIM-7F QUALIFICATION TST VOL I
BU2932K	27MAR78	HERCULES INC	TEST RPT FOR OUT OF LINE INITIATOR MK36 SIDEWINDER RKT MTR
BU2935J	12APR79	HERCULES INC	S+A IGNITION ASSEMBLY FOR AIM-9L SIDEWINDER MK 36 RKT MTR TEST RPT
800423A	31MAR80	HERCULES INC	ENCLOSED BROCHURE DESCRIBES TATB FACILITY
800423B	00FEB80	HERCULES INC	HERCULES-MCGREGOR CAPABILITIES FOR PRODUCING TATB
800435B	31MAR80	HERCULES INC	TECHNICAL CAPABILITIES + FACILITIES OF TATB
800435C	00FEB80	HERCULES INC	HERCULES-MCGREGOR CAPABILITIES FOR PRODUCING TATB
800853K	14APR78	HERCULES INC	HAZ TSTING OF WATER-WET HMX IN FROZEN CONDITION PROJ 688
800961F	16NOV81	HERCULES INC	NITROCELLULOSE
800961H	20AUG78	HERCULES INC	VALUE ENGINEERING CHANGE PROPOSAL FOR ELIMINATION OF DRYING CELLULOSE
800961J	07AUG79	HERCULES INC	COTTON PRIOR TO THE NITRATION PROCESS
			DELETE THE REQUIREMENT TO DRY THE COTTON LINTERS BEFORE BEGINNING
800961K	00AUG77	HERCULES INC	THE NITRATION PROCESS
			SUPPLEMENTAL DATA FOR REQUEST FOR DEVIATION/WAIVER OR ENGINEERING
			CHANGE PROPOSAL
DU2465G	30JUN66	HERCULES INC	SIX-MONTH SHELF LIFE TSTS ON THIRD PRODUCTION RUN M013/000 GAS GEN
5C7063B	29JUN74	HERCULES INC	FINAL REPORT POLARIS A3 SECOND STAGE MOTOR PROPELLANT SAFETY DATA
SU1351D	21DEC70	HERCULES INC	WAIVER NO 3 O-D SEPARATION OF MAGAZINES 173 AND 169
SU1501F	29JUN72	HERCULES INC	WAIVER RENEWAL & CANCELLATION
SU1532C	02NOV70	HERCULES INC	EXPLOSIVE SAFETY SURVEY 23-26 JUN 70
SU1534G	15OCT70	HERCULES INC	WAIVERS/EXEMPTIONS OF SAFETY REGULATIONS FOR AMMO, EXPLOS + RELATED
			DANGEROUS MATERIAL
SU1952K	01JUN72	HERCULES INC	EXEMPTION REQUEST NO 9
SU6572L	15APR70	HERCULES INC	EXPLO SAFETY SURVEY, HERCULES INC BY J F GREEN, NOSSOP SAFETY DIRCTR
SU6573L	28JUL69	HERCULES INC	EXPLO SAFETY SURVEY, HERCULES INC, BY J F GREEN, NOSSOP SAFETY DIR

FIGURE 2. SAMPLE FROM LOG FILE DICTIONARY NO. 6: DOCUMENTS BY FILE (AUTHOR OR SOURCE)

A schematic of the retrieval modus operandi by document date and/or author-source is shown in Figure 3.

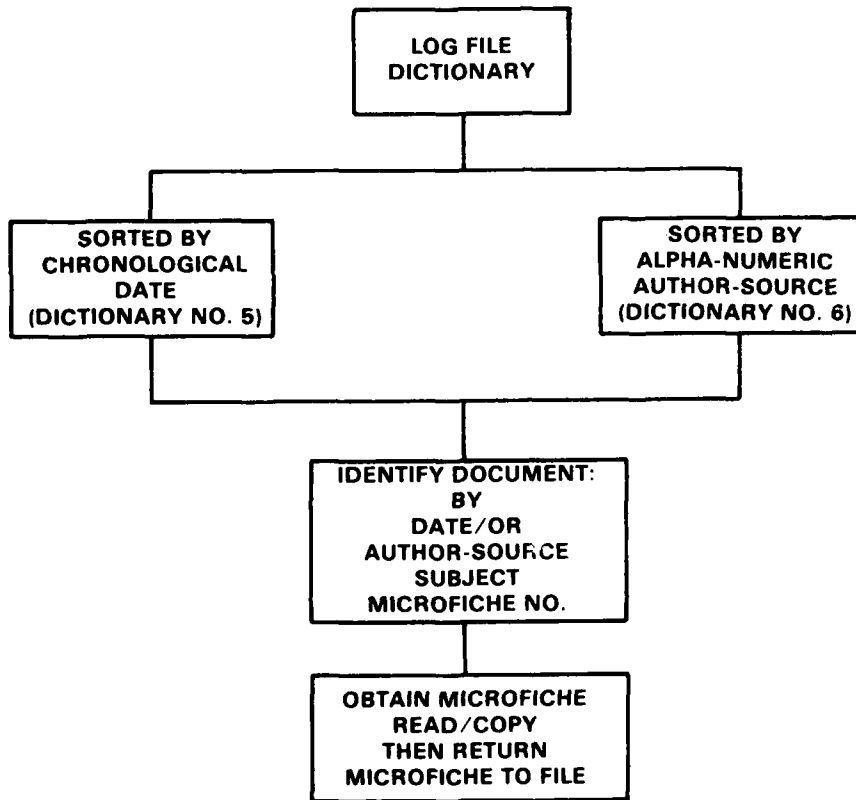


FIGURE 3. SCHEMATIC OF THE MODUS OPERENDI FOR DOCUMENT RETRIEVAL VIA LOG FILE DICTIONARY

2. The Log File Dictionaries can be customized. The following customized Dictionaries exist: NAVSEA-06H Selected Files, HARPOON, HERO, Laser, Marine Corps Weapons, TOMAHAWK, and VLS.

3. Weapon systems safety test data can be instantaneously retrieved in a matrix format. (This software modification required the addition of the CYBER 170/720 computer and the Silent 700 electronic terminal.) An example of this matrix output is shown in Figure 4. The headline entries for this format are self-explanatory.

SEQUENCE WEAPON SYSTEM CODE = A	COMPONENT	SAFEQRO DATA BASE COMPONENT ID CONTENTS	TEST TYPE	TEST RESULTS	REMARKS	VR FICNUM
000301 A 3048	WHD	4K82/2,3	COOKFAST	12:42 EXP *	AVCD	72 AU8344J
000305 A 3048	WHD	4K82/	COOKFAST	4:07 DET *	CECD ITUMESC	70 AU8351A
000306 A 3048	WHD	4K82/	COOKFAST	5:12 DEF *	CECD ITUMESC	70 AU8351A
000307 A 3048	WHD	4K82/	COOKFAST	11:37 15:11 *	AVCD PFIZE UM	70 AU8352D
000308 A 3048	WHD	4K82/2	COOKFAST	3:35 BURN		73 AU8352H
000309 A 3048	FZ	4K82/	COOKFAST	22:48 DET *		71 AU8362J
000310 A 3048	FZ	4K82/	COOKFAST	PASS		70 AU8362A
000312 A 3048 SHAKKEYE	FZ	4K82/	COOKFAST	22:48 DET		71 AU8362A
000313 A 3048	PRIMER	4K82/1	VIB	PASS		73 AU8362A
000314 A 3048	PRIMER	4K82/1	JOLT	PASS		73 AU8362A
000315 A 3048	WHD	4K82/	COOKFAST	5:55 DEF	CECD ITUMESC	73 AU8362D
000316 A 3048	WHD	4K82/	COOKFAST	7:18 DEF	PFIZER	73 AU8362E
000317 A 3048	WHD	4K82/	COOKFAST	9:12 DEF	AVCD	73 AU8362E
000318 A 3048	WHD	4K82/	COOKFAST	4:58 DEF	HOT MELT	73 AU8362F
000319 A 3048	WHD	4K82/	COOKFAST	2:01 EXP	PLASTISOL	73 AU8362F
000320 A 3048	WHD	4K82/	COOKFAST	2:12 EXP	A/C WING	70 AU8362G
000321 A 3048	WHD	4K82/	COOKFAST	2:06 EXP		73 AU8362G
000322 A 3048	WHD	4K82/	COOKFAST	2:08 EXP		AU8362G
000324 A 3ULLPUP	WHD	4K82/	COOKFAST	1:55 DEF		73 AU8362H
000325 A 3ULLPUP	WHD	4K82/	COOKFAST	1:09 1:53		73 AU8362H
000326 A 3048	FZ	4K82/	COOKFAST	19:30 23:12		73 AU8362J
000328 A 3048	WHD	4K82/	COOKFAST	14:12 DEF	AVCD	12 AU8362J
000329 A 3048	WHD	4K82/	COOKFAST	17:14	PFIZER	AU8362J
000330 A 3048	FZ	4K82/	COOKFAST	31:55 24:11	CONICAL FIN	70 AU8362J
000331 A 3048	WHD	4K82/	COOKFAST	17:02 DEF	PFIZER	AU8362K
000332 A 3048	WHD	4K82/	COOKFAST	12:45 DEF	AVCD	AU8362K
000333 A 3ULLPUP	WHD	4K82/	COOKFAST	2:43 EXP		AU8362L
000335 A 3048	WHD	4K82/	COOKFAST	0:48 1:37 DEF	PARTIAL DET	AU8362L
000338 A 3048	FZ	4K82/5	JOLT	PASS		AU8365G

FIGURE 4. WEAPON SYSTEM SAFETY TEST DATA MATRIX

SAFEORD STATUS

In approximately 14 years of operation, SAFEORD has been endowed with over 700,000 sets of safety data on over 12,000 film cards related to (approximately) 8000 systems. These data represent over 90,000 documents of 1-225 pages in length. Over 16,000 descriptions and data codes are being used to enter data into SAFEORD.

The restructuring of SAFEORD to handle this volume has resulted in the following benefits:

1. The replacement of the wet process equipment with a dry photography system has resulted in a more rapid and cost-effective operation and the elimination of the health hazards associated with the chemicals required for the wet process.
2. Instantaneous retrieval of weapon systems safety test information is now possible by direct communication with the CYBER 170/720 computer via the Silent 700 electronic data terminal.
3. Immediate retrieval of safety documents by chronological data and/or document author-source is realized and customized SAFEORD Log File Dictionaries have been generated and published.
4. The capability now exists for users to instantaneously retrieve weapon systems safety test data in a matrix format.

The demand by SAFEORD users for faster safety data retrieval, greater simplicity of use, and more rapid data entry has been accomplished by the restructuring reported in this document.

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